

# POLYLACTIC ACID POLYMER COMPOSITION AND ITS MOLDED ITEM

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Abstract of **JP9272790**

**PROBLEM TO BE SOLVED:** To solve the problems that polylactic acid, when rapidly cooled in, e.g. injection molding, becomes amorphous and gives a molded item which is distorted by its own wt. at temps. between the glass transition point (about 60 deg.C) and the crystallization temp. (about 100 deg.C) and has a poor resistance to heat distortion and that polylactic acid has a high melt viscosity and hence its production or processing is difficult. **SOLUTION:** This polymer compsn. is a mixture comprising 97-40wt.% crystalline polyester polymer obtid. by the copolymerization of lactic acid as the main monomer and 1-30wt.% at least one comonomer selected from among X aliph. polyethers, maliph. polylactones, aliph. lactones aliph. polycarbonates, and their oligomers and 3-60wt.% polyester block copolymer comprising 97-50wt.% crystalline polyester segments formed from an aliph. dicarboxylic acid and a linear diol and 3-50wt.% polylactic acid segments.

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